

## Is there a way to combine different types of ponds?

Posted by astewart - 2008/04/21 23:10

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I'm trying to discretize a basin that contains releasing and nonreleasing ponds. I'd also like to include an internal gage. Is there a way to use all three options simultaneously to generate a realistic discretization?

Thanks!

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## Re:Is there a way to combine different types of ponds?

Posted by lainie - 2008/04/23 16:33

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Hi,

You may be able to model releasing and non-releasing ponds, and internal gages using the ponds input. The non-releasing ponds would have to show no discharge, and have a volume larger than what is likely to occur.

To model an internal gage using the pond input, put in a dummy pond (to split the watershed), and then modify the parameter file by removing the pond element, and revising the downstream channel so that the upstream channel number is the channel that is upstream from the internal gage (to make it continuous).

Can you send us the pond scripts that failed so we can look at them?

Also, how small is your CSA, and what is the size of your watershed?

Thanks,  
Lainie

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## Re:Is there a way to combine different types of ponds?

Posted by astewart - 2008/05/05 21:10

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Hi,  
I'm trying to use a CSA of 2%, but have been varying it to try to get a successful discretization (no luck yet). I'd be glad to send anything that can help diagnose and fix this problem. What do you need exactly?

Thanks, Anne

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## Re:Is there a way to combine different types of ponds?

Posted by lainie - 2008/05/05 21:46

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You may be experiencing a conflict between the resolution of your DEM and land cover grid. What are the resolutions?

Also, what is the total area of your watershed?

Lainie

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**Re:Is there a way to combine different types of ponds?**

Posted by astewart - 2008/05/05 22:12

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Hi Lainie,

I haven't gotten to the delineation, this problem is occurring in the discretization. The basin discretizes fine until I try to use the ponds and internal gages features, whereupon I have multiple problems, including missing planes as well as the problems I've already described. In the meantime I've been trying AGWA 2.0, but it seems ponds are not available yet in v.2.0?

My DEM is 10 m2 per pixel. The entire study area is not as large as Walnut Gulch, but I'm working on subareas.

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**Re:Is there a way to combine different types of ponds?**

Posted by astewart - 2008/05/05 22:41

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Sorry, I mispoke, I have no problem getting excellent delineations.

I should have written I'm not able to discretize with internal ponds, without the errors already described.

I have been able to include a single upgradient non-releasing pond truncating the discretization. What I seek to do now is to apply multiple releasing ponds below the non releasing pond, and to include gaging station locations.

I have been able to parameterize earlier non-pond versions with my soils grid and land cover grid, so I'm hoping if I can get the basin discretized the way I need it, that will go smoothly.

Thanks in advance for any more advice,  
Anne

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**Re:Is there a way to combine different types of ponds?**

Posted by astewart - 2008/05/08 21:24

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Hi, and FYI,

It seems there is a limit (maybe

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